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*Noser, H.; Stern, C.; Stucki, P.;*  
Visualization and Computer Graphics, IEEE Transactions on , Volume: 9 , Issue: 2 , April-June 2003  
Pages:213 - 225

[\[Abstract\]](#)   [\[PDF Full-Text \(1474KB\)\]](#)   **IEEE JNL****2 A rule-based interactive behavioral animation system for humanoid**

*Noser, H.; Thalmann, D.;*  
Visualization and Computer Graphics, IEEE Transactions on , Volume: 5 , Issue: 4 , Oct.-Dec. 1999  
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*Capin, T.K.; Noser, H.; Thalmann, D.; Sunday Pandzic, I.; Thalmann, N.M.;*  
Computer Graphics and Applications, IEEE , Volume: 17 , Issue: 2 , March-April 1997  
Pages:42 - 53

[\[Abstract\]](#)   [\[PDF Full-Text \(312KB\)\]](#)   **IEEE JNL****4 Dynamic 3D visualization of database-defined tree structures on the WWW by using rewriting systems**

*Noser, H.; Stucki, P.;*  
Advanced Issues of E-Commerce and Web-Based Information Systems, 2000 WECWIS 2000. Second International Workshop on , 8-9 June 2000  
Pages:247 - 254

[\[Abstract\]](#)   [\[PDF Full-Text \(412KB\)\]](#)   **IEEE CNF****5 Sensor based synthetic actors in a tennis game simulation**

*Noser, H.; Thalmann, D.;*  
Computer Graphics International, 1997. Proceedings , 23-27 June 1997

Pages:189 - 198

[\[Abstract\]](#) [\[PDF Full-Text \(1136KB\)\]](#) IEEE CNF

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**6 The animation of autonomous actors based on production rules**

Noser, H.; Thalmann, D.;

Computer Animation '96. Proceedings , 3-4 June 1996

Pages:47 - 57

[\[Abstract\]](#) [\[PDF Full-Text \(1684KB\)\]](#) IEEE CNF

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**7 Lworld: an animation system based on rewriting**

Noser, H.;

Computer Graphics and Applications, 2002. Proceedings. 10th Pacific Conference , 9-11 Oct. 2002

Pages:487 - 488

[\[Abstract\]](#) [\[PDF Full-Text \(451KB\)\]](#) IEEE CNF

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**8 Integration of optimization by genetic algorithms into an L-system-based animation system**

Noser, H.; Stucki, P.; Walser, H.-P.;

Computer Animation, 2001. The Fourteenth Conference on Computer Animation Proceedings , 7-8 Nov. 2001

Pages:106 - 253

[\[Abstract\]](#) [\[PDF Full-Text \(820KB\)\]](#) IEEE CNF

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**9 Automatic derivation of curved human walking trajectories from synthetic vision**

Boulic, R.; Noser, H.; Thalmann, D.;

Computer Animation '94., Proceedings of , 25-28 May 1994

Pages:93 - 103

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**1 Dynamic construction of animated help from application context**

Piyawadee Sukaviriya

**January 1988 Proceedings of the 1st annual ACM SIGGRAPH symposium on User Interface Software**Full text available: [pdf\(1.64 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Help provided as traditional text descriptions has become incompatible with graphical interfaces. Animation suggests a better association between help and a graphical interface. This paper describes a prototype system implemented to demonstrate the use of dynamic scenarios as help. A scenario animates the execution of a task as a sequence of steps in the actual interface and work context. Each scenario is dynamically generated depending on the current work context of the user. The system re ...

**2 A selective undo mechanism for graphical user interfaces based on command objects**

Thomas Berlage

**September 1994 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 1 Issue 3**Full text available: [pdf\(1.78 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

It is important to provide a recovery operation for applications with a graphical user interface. A restricted linear undo mechanism can conveniently be implemented using object-oriented techniques. Although linear undo provides an arbitrarily long history, it is not possible to undo isolated commands from the history without undoing all following commands. Various undo models have been proposed to overcome this limitation, but they all ignore the problem that in graphical user interfaces a ...

**Keywords:** command objects, groupware, undo**3 Interval scripts: a design paradigm for story-based interactive systems**

Claudio S. Pinhanez, Kenji Mase, Aaron Bobick

**March 1997 Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available: [pdf\(1.11 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** interaction design, story-based immersive systems, temporal scripts

**4 Generating Decision Trees for Decoding Binaries**



Henrik Theiling

August 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 8

Full text available: [pdf\(208.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tools reading binary code, like analysers, debuggers, disassemblers, etc., need to decode the target's machine code. A decision tree is often used to represent the decoding function.

Manually writing a decoder is a lengthy and error-prone task. It is desirable to be able to use the vendor's instruction code manual and to easily transform the documentation into a specification that a tool can use to generate a decoder.

This paper presents a novel algorithm that computes a decis ...

**5 Instructible information agents for Web mining**



Mathias Bauer, Dietmar Dengler, Gabriele Paul

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**

Full text available: [pdf\(1.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information agents are intended to assist their users in locating relevant information in vast collections of documents like the WWW. In many cases, e.g., when trying to integrate pieces of information from previously unrelated sources, it is not sufficient to merely identify documents containing relevant data. Instead, information agents have to identify the interesting portions of these documents and make them available for further use. T ...

**Keywords:** information agents, programming by demonstration, wrapper induction

**6 Event matching in symmetric subscription systems**



Walid Rjaibi, Klaus R. Dittrich, Dieter Jaepel

September 2002 **Proceedings of the 2002 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(192.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Publish/subscribe and database systems researchers have recognized the importance of the event matching algorithm to the performance and scalability of a content-based subscription system. A number of interesting event matching techniques as well as DBMS solutions have been proposed in recent research work in the area. Content-based subscription systems allow information consumers to define filtering criteria when they register their interest in being notified of events that match their requirem ...

**7 Should anchors be typed too?: an experiment with MacWeb**



Jocelyne Nanard, Marc Nanard

December 1993 **Proceedings of the fifth ACM conference on Hypertext**

Full text available: [pdf\(1.10 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** anchoring, dynamic links, knowledge-based hypertext, virtual documents

**8 Visual Ada developer**

Leonid Dulman

**December 2002 Proceedings of the 2002 annual ACM SIGAda international conference on Ada: The engineering of correct and reliable software for real-time & distributed systems using Ada and related technologies**Full text available:  pdf(378.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Programming language popularity depends not only on its properties and quality, but also on service which the user gets in its environment. Gui and visual developer are important components of IDE (Integrated-Development Environment). Visual Ada Developer (VAD) helps Ada programmers easily create OS independent application, using standard set of components, such as GUI elements, Multimedia elements, Network connections, DB connections and others.

**Keywords:** Ada-95, Tcl/Tk, gui, ide, widget**9 Case recognition and strategy classification**

Cees Groenewijk, Anja Oskamp

**August 1993 Proceedings of the fourth international conference on Artificial intelligence and law**Full text available:  pdf(943.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In a conventional expert system shell, the process of automated reasoning is generally determined by four components: the current fact situation, a goal, the content of the knowledge base, and control knowledge. This paper focuses on control knowledge. The approach taken is to obtain control knowledge from precedents which resemble the current fact situation. Control knowledge, which is here understood as both referring to search and strategy, is important because control knowledge: 1.-faci ...

**10 Document querying and transformation: Automating XML document structure****transformations**

Paula Leinonen

**November 2003 Proceedings of the 2003 ACM symposium on Document engineering**Full text available:  pdf(94.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an implementation for syntax-directed transformation of XML documents from one structure to another. The system is based on the method which we have introduced in our earlier work. That work characterized certain general conditions under which a semi-automatic transformation is possible. The system generates semi-automatically a transformation between two structures of the same document class. The system gets source and target DTDs as an input. There is a tool for a user to d ...

**Keywords:** XML, XSLT, document structure transformation**11 Meaningful change detection in structured data**

Sudarshan S. Chawathe, Hector Garcia-Molina

**June 1997 ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2Full text available:  pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

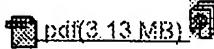
Detecting changes by comparing data snapshots is an important requirement for difference

queries, active databases, and version and configuration management. In this paper we focus on detecting meaningful changes in hierarchically structured data, such as nested-object data. This problem is much more challenging than the corresponding one for relational or flat-file data. In order to describe changes better, we base our work not just on the traditional "atomic" insert, delete, u ...

## 12 Floating constraints in lexical choice

Michael Elhadad, Jacques Robin, Kathleen McKeown  
June 1997 **Computational Linguistics**, Volume 23 Issue 2

Full text available:



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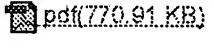
Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Lexical choice is a computationally complex task, requiring a generation system to consider a potentially large number of mappings between concepts and words. Constraints that aid in determining which word is best come from a wide variety of sources, including syntax, semantics, pragmatics, the lexicon, and the underlying domain. Furthermore, in some situations, different constraints come into play early on, while in others, they apply much later. This makes it difficult to determine a systemati ...

## 13 Formation of clusters and resolution of ordinal attributes in ID3 classification trees

Chaman L. Sabharwal, Keith R. Hacke, Daniel C. St. Clair  
April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

Full text available:

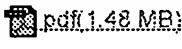


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 14 Haskell and XML: generic combinators or type-based translation?

Malcolm Wallace, Colin Runciman  
September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 9

Full text available:



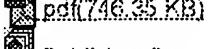
Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present two complementary approaches to writing XML document-processing applications in a functional language. In the first approach, the generic tree structure of XML documents is used as the basis for the design of a library of combinators for generic processing: selection, generation, and transformation of XML trees. The second approach is to use a type-translation framework for treating XML document type definitions (DTDs) as declarations of algebraic data types, and a derivation of the cor ...

## 15 Compilation of HPSG to TAG

Robert Kasper, Bernd Kiefer, Klaus Netter, K. Vijay-Shanker  
June 1995 **Proceedings of the 33rd conference on Association for Computational Linguistics**

Full text available:



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We present an implemented compilation algorithm that translates HPSG into lexicalized feature-based TAG, relating concepts of the two theories. While HPSG has a more elaborated principle-based theory of possible phrase structures, TAG provides the means to represent lexicalized structures more explicitly. Our objectives are met by giving clear definitions that determine the projection of structures from the lexicon, and identify "maximal" projections, auxiliary trees and foot nodes.

## 16 Visualization techniques II: An open toolkit for prototyping reverse engineering

visualizations

Alexandru Telea, Alessandro Maccari, Claudio Riva

May 2002 **Proceedings of the symposium on Data Visualisation 2002**

Full text available:  pdf(480.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#).

Maintenance and evolution of complex software systems (such as mobile telephones) involves activities such as reverse engineering (RE) and software visualization. Although several RE tools exist, we found their architecture hard to adapt to the domain and problem specific requirements posed by our current practice in Nokia. In this paper, we present an open architecture which allows easy prototyping of RE data exploration and visualization scenarios for a large range of domain models. We pay spe ...

**17 Novel search environments: Exploring discussion lists: steps and directions**

Paula S. Newman

July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(343.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#).

This paper describes some new facilities for exploring archived email-based discussion lists. The facilities exploit some specific properties of email messages to obtain improved archive overviews, and then use new tree visualizations, developed for the purpose, to obtain thread overviews and mechanisms to aid in the coherent reading of threads. We consider these approaches to be limited, but useful, approximations to more ideal facilities; a final section suggests directions for further work in ...

**Keywords:** discussion list, email, email archive, narrowtree, on-line forum, persistent conversation, thread, treetable

**18 AMDB: an access method debugging tool**

Marcel Kornacker, Mehul Shah, Joseph M. Hellerstein

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available:  pdf(207.86 KB) Additional Information: [full citation](#), [references](#), [index terms](#).

**19 DAIDA: an environment for evolving information systems**

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou

January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1

Full text available:  pdf(3.63 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#).

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

**Keywords:** knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

**20 Agent-based design of distributed hypertext**

Antonina Dattolo, Vincenzo Loia

**February 1996 Proceedings of the 1996 ACM symposium on Applied Computing**Full text available: .pdf(880.42 KB) Additional Information: full citation, references, index terms**Keywords:** information retrieval, object-oriented concurrent languages, open hypertext design, version control

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**1 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**2 Computing curricula 2001**September 2001 **Journal on Educational Resources in Computing (JERIC)**Full text available: [pdf\(613.63 KB\)](#) [html\(3.76 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Types and persistence in database programming languages**

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2Full text available: [pdf\(7.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

**4 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science**

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweißeppe, William Vliavant, David M. Young

March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available:  pdf(6.63 MB) Additional Information: [full citation](#), [references](#), [citations](#)

**Keywords:** computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

**5 Techniques for Structuring Database Records**

Salvatore T. March

January 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 1

Full text available:  pdf(3.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**6 Flexible control of downloaded executable content**

Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

Full text available:  pdf(297.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

**Keywords:** access control models, authentication, authorization mechanisms, collaborative systems, role-based access control

**7 EXPRESS: a data EXtraction, Processing, and Restructuring System**

N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum

June 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 2

Full text available:  pdf(2.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

**Keywords:** data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

**8 Build a tree—save a parse**

Chris Clark

April 1999 **ACM SIGPLAN Notices**, Volume 34 Issue 4

Full text available:  pdf(560.53 KB) Additional Information: full citation, index terms.

**9 DAIDA: an environment for evolving information systems**

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou

January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1

Full text available:  pdf(3.63 MB)

Additional Information: full citation, abstract, references, citations, index terms, review

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

**Keywords:** knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

**10 Technical reports**

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available:  pdf(5.28 MB)

Additional Information: full citation

**11 The family of concurrent logic programming languages**

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  pdf(9.62 MB)

Additional Information: full citation, abstract, references, citations, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

**12 The Quadtree and Related Hierarchical Data Structures**

Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available:  pdf(4.87 MB)

Additional Information: full citation, references, citations, index terms

**13 CASDAL: CASSM's DATA Language**

Stanley Y. W. Su, Ahmed Emam

March 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 1

Full text available:  pdf(2.72 MB)

Additional Information: full citation, abstract, references, citations, index terms

CASDAL is a high level data language designed and implemented for the database machine CASSM. The language is used for the manipulation and maintenance of a database using an

unnormalized (hierarchically structured) relational data model. It also has facilities to define, modify, and maintain the data model definition. The uniqueness of CASDAL lies in its power to specify complex operations in terms of several new language constructs and its concepts of tagging or marking tuples and of matc ...

**Keywords:** associative memory, database, nonprocedural language, query language, relational model

**14 A structural view of the Cedar programming environment**

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

**15 The state of the art in automating usability evaluation of user interfaces**

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available:  pdf(2.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

**Keywords:** Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

**16 Spoken dialogue technology: enabling the conversational user interface**

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  pdf(987.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

**Keywords:** Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

**17 Interactive Editing Systems: Part II**

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**18 Explanation-based learning: a survey of programs and perspectives** 

Thomas Ellman

June 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 2

Full text available:  pdf(6.15 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Explanation-based learning (EBL) is a technique by which an intelligent system can learn by observing examples. EBL systems are characterized by the ability to create justified generalizations from single training instances. They are also distinguished by their reliance on background knowledge of the domain under study. Although EBL is usually viewed as a method for performing generalization, it can be viewed in other ways as well. In particular, EBL can be seen as a method that performs fo ...



**19 The FINITE STRING Newsletter: Abstracts of current literature** 

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:

 pdf(6.15 MB) 

Additional Information: [full citation](#)

[Publisher Site](#)



**20 Using types to analyze and optimize object-oriented programs** 

Amer Diwan, Kathryn S. McKinley, J. Eliot B. Moss

January 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 23 Issue 1

Full text available:  pdf(414.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Object-oriented programming languages provide many software engineering benefits, but these often come at a performance cost. Object-oriented programs make extensive use of method invocations and pointer dereferences, both of which are potentially costly on modern machines. We show how to use types to produce effective, yet simple, techniques that reduce the costs of these features in Modula-3, a statically typed, object-oriented language. Our compiler performs type-based alias analysis to ...

**Keywords:** alias analysis, classes and objects, method invocation, object orientation, polymorphism, redundancy elimination

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